SONIC™ SCENARIST®

VERSION 3.0

PRODUCT INFORMATION PACK

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FOR SONIC RESELLERS ONLY

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SCENARIST PRODUCT FAMILY

SKU	Product Name	Price	Includes
All-in-one DVD Workstations			
SEN-3119	Scenarist Professional AV	$56,999	Scenarist Professional Authoring (SEN-3100) SD-2000 Encoding - 8 Ch IO (DVD-4029) 5.1 Audio Encoding DVD-Audio Creator (HD-721) Dual monitor plus video output hardware
SEN-3120	Scenarist Professional 2000	$36,999	Scenarist Professional Authoring (SEN-3100) SD-2000 Encoding - Stereo IO (DVD-4026) Dual monitor plus video output hardware
SEN-2045	Scenarist Professional 1000	$26,999	Scenarist Professional Authoring (SEN-3100) SD-1000 Encoding - Stereo IO (DVD-4038) Dual monitor plus video output hardware
SEN-2046	Scenarist Studio 1000	$16,999	Scenarist Studio Authoring (SEN-3101) Scenarist Studio FilmPack (SEN-3113) SD-1000 Encoding - Stereo IO (DVD-4038) Dual monitor plus video output hardware
Authoring-Only Software			
SEN-3100	Scenarist Professional Authoring	$21,999	Dual monitor plus video output hardware See feature matrix on page 3
SEN-3101	Scenarist Studio Authoring	$7,999	Dual monitor plus video output hardware See feature matrix on page 3
Authoring Add-on Options (for Scenarist Studio)			
SEN-3113	Scenarist Studio FilmPack™	$3,999	Region Coding, Copy Protection, Parental Blocking, and Unlimited Menu Language Support
SEN-3112	Scenarist Studio Line 21 Option	$999	See feature matrix on page 3
SEN-3110	5.1 Audio Transcoding Option	$999	See feature matrix on page 3
SEN-3111	PlantDirect™ Tapeless Premastering	$2,499	See feature matrix on page 3

Pricing subject to change without notice. For the latest pricing please refer to the Scenarist price list available from your regional Sonic representative.

SCENARIST AUTHORING FEATURE MATRIX

SONIC SCENARIST	Scenarist Studio	Scenarist Professional
Audio Transcoding		
Stereo Dolby® Digital Transcoding	✓	✓
Surround Dolby® Digital Transcoding	Optional (SEN- 3110)	✓
DVD-Video Authoring Support		
Video Title Sets	99	99
Titles (per Video Title Set)	99	99
Multiple Video Angles	3	9
Audio Streams	8	8
Subtitle Streams	32	32
Multi-line Commands per PGC	128	128
Motion Menu Support	✓	✓
Menu Language Support	1 (Unlimited with FilmPack)	Unlimited
Pre/Post Command Editing	✓	✓
User Operation Control	✓	✓
DVD-Video/DVD-ROM Hybrid Support	✓	✓
PGC Playback Mode (Random/Shuffle)	✓	✓
Dual Layer Support	✓	✓
16:9 Authoring Support	✓	✓
Advanced Authoring Support		
Advanced Copy-and-Paste	✓	✓
Template Manager	✓	✓
Subpicture Effects (Fade/Wipe/Scroll)	✓	✓
Region Coding	FilmPack	✓
Copy Protection	FilmPack	✓
Parental Blocking	FilmPack	✓
Line 21 Support	Optional (SEN-3112)	✓
96 kHz PCM Audio Support		✓
Multi-channel MPEG-1, Layer 2 Audio		✓
Jacket Picture		✓
Text Data		✓
Video angles with audio/subtitle switching		✓
DTS Audio Support		✓
Full Karaoke Support		✓
Audio Application Mode (Surround/Karaoke)		✓
Scenarist SGI Script Import		✓
Premastering Support		
DVD-R, DVD+R, DVD-RW, DVD+RW, CD-R, CD-RW	✓	✓
DLT	✓	✓
PlantDirect™	Optional (SEN-3111)	✓

Specifications subject to change without notice

FilmPack = Scenarist Studio Film Pack (SEN-3113)
Note: Scenarist Studio now supports 99 Video Title Sets

KEY FEATURES

ALL-IN-ONE DVD WORKSTATIONS

- **Encode** - Real time CBR/VBR encoding via SDI input
  - Simultaneous Video and Audio encoding
- **Author** - Unrivaled access to the DVD specification
  - Advanced asset and template management
  - Real time preview on an external monitor
- **Burn** - Wide range of output devices
  - PlantDirect™: deliver directly over the internet
  - Maximum DVD player compatibility

computer and video monitors not included

Cell-level access to the DVD specification - Scenarist provides the most detailed access and control over the DVD specification to command every aspect of DVD playback for your title. With access to all 16 GPRM registers and unparalleled navigation and command sequence generation, Scenarist is the choice of feature film and high-end interactive programmers who want the ultimate in power, control, and compatibility for their DVD title creation business. *Scenarist Exclusive.*

Real time Hardware Simulation - Simulate your project on both VGA and external video monitor at any stage in the authoring process to experience your title as if you were viewing the finished disc. Scenarist comes with dual monitor plus video output hardware as standard.

Integrated Dolby® Digital Transcoding - Encode Dolby® Digital audio files directly from PCM audio (.wav) files within Scenarist. Stereo encoding is standard in both Scenarist Studio and Scenarist Professional. Surround encoding is standard in Scenarist Professional, and optional in Scenarist Studio.

Timeline Interface - Scenarist's timeline interface provides a familiar environment for any authors used to Non-Linear Editing. Scenarist's timeline enables drag-and-drop stream editing, chapter point placement and subtitle editing.

User Operation Control - Easily disable buttons at cell level on the DVD player's remote control.

DVD-Video/DVD-ROM Hybrid Support - Author interactive DVD-Video titles with a DVD-ROM zone for storing extra multimedia content.

Subpicture Effects - Add fade, wipe, and scroll effects to any menu subpicture or movie subtitle. No other authoring software supports subpicture effects. *Scenarist Exclusive.*

Scenarist FilmPack™ - Option for Scenarist Studio. Add Region Coding, APS, CSS, CGMS Copy Protection, Parental Blocking, and Unlimited Menu Language Support.

Line 21 Support - Option for Scenarist Studio. Add Closed Captioning to your NTSC video.

Video Angles with Audio/Subtitle Switching - Change audio and subtitle streams with the video angle and "hide" streams depending on which video angle is being viewed. No other authoring software provides this capability. *Scenarist Exclusive.* (Scenarist Professional Only).

Jacket Picture Support - Add a screensaver to your DVD that displays whenever the set top player is in stop mode. (Scenarist Professional Only).

Text Data Support - Add text data to your title for chapter and title display on the set top player's LCD screen. *Scenarist Exclusive*. (Scenarist Professional Only).

DTS Audio Support - Add DTS Audio to your finished titles. (Scenarist Professional Only).

NEXT PAGE - NEW FEATURES FOR VERSION 3.0

NEW FEATURES IN VERSION 3.0

Scenarist Version 3.0 boasts significant feature enhancements designed to make powerful DVD production more efficient than ever. Version 3.0's productivity enhancements combine with Scenarist's existing authoring power to make Scenarist the most comprehensive authoring solution available today. New features include:

- **Advanced Copy-and-Paste** - Version 3.0 expands the existing copy-and-paste functionality and enables copy-and-paste of pre-, post-, cell, and button commands between PGCs.
- **Import and Export Video Title Sets** - Create a productive and efficient Scenarist workgroup. The new Import and Export Video Title Set feature enables DVD authors to work on separate parts of a DVD title simultaneously, then compile each section into a single project for polishing and finishing, prior to replication.
- **Photoshop® Layer Support** - Create layered DVD menus in Adobe Photoshop that contain background and button layers and import them directly into Scenarist.
- **Enhanced Template Management** - The new template wizard in version 3.0 allows DVD authors to create new scenarios from custom project templates or using the project wizard.
- **Improved Asset Management** - Specify default file locations for scenario and script files or reassign file paths for entire projects. Move a complete project between systems with ease.
- **Expanded Device Support** - Output to the widest range of CD-recordable, DVD-recordable, and DLT drives available. A complete list of supported devices is maintained at the following URL: http://www.sonic.com/products/scenarist/devices.asp
- **PlantDirect™ Tapeless Premastering** - Sonic's exclusive PlantDirect premastering technology enables disc images to be uploaded via a secure internet connection to a replication plant. PlantDirect saves time and money on every DVD project by removing the need to write and ship DLTs. Included as standard in Scenarist Professional; optional extra in Scenarist Studio.

PRODUCT POSITIONING AND TARGET MARKETS

With the introduction of all-in-one workstations, Scenarist Studio, the Scenarist Studio FilmPack, and Scenarist Version 3.0, Scenarist is now more powerful, efficient, and affordable than ever and is now available to a wide range of users who want to create highly interactive titles. The following pages outline Scenarist's target markets, the kind of titles produced, their requirements, and how Scenarist delivers like no other authoring solution can. Scenarist's target markets include:

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Commercial DVD Production Facilities

Commercial DVD Production Facilities produce major commercial titles for large scale distribution. The kind of titles they produce include feature films and television series including episodic box sets.

The user demands:	Scenarist Professional delivers:
Highest Player Compatibility: For mass produced titles, users can't afford to have any player compatibility problems.	Scenarist's formatting engine is tried, tested, and trusted worldwide making it the only choice of major title distributors. Scenarist is renowned for it's level of player compatibility.
All-in-one Convenience: For the fastest possible, highest quality, tape to disc solution.	The Scenarist Professional 1000, 2000, and Pro AV workstations offer unrivaled production efficiency and encoding quality. *Sonic Exclusive.*
Real time Cinematic Quality Encoding: High-end facilities have to encode video and audio in real-time and have the best quality possible.	The Scenarist Professional 1000, 2000, and Pro AV workstations feature Sonic's SD-series encoders, delivering high quality video and audio in real-time with powerful software control. *Sonic Exclusive.*
Authoring Power: Highest level of interactivity possible. Requires unlimited access to the DVD specification.	Scenarist Professional provides unrivaled access to the DVD specification: Full GPRM/SPRM and DVD scripting access, User Operation Control, Subpicture Effects, Video-angle with audio/subtitle switching, Jacket Picture and Text Data Support. *Scenarist Exclusive.*
Production Efficiency: As well as power, users need to produce titles with maximum efficiency.	**Templating** - Scenarist's template manager allows you to save templates at any stage in the authoring process and use them as a starting point for future projects. **Place Holders** - Author an entire project without any assets and save it as a template. Ideal for DVD box sets. **Advanced Copy-and-Paste** - Scenarist's ability to copy and paste any PGC attribute radically increases efficiency. **Import/Export VTS** - Scenarist can copy entire sections of your project and spread large projects over multiple Scenarist systems. **Photoshop® Support** - Scenarist can create menus directly from layered Photoshop files saving time compiling menus. *Scenarist Exclusives.*
Instant, Real time Hardware Simulation: It's vital to be able to simulate projects on an external video monitor at any stage in the authoring process to get a true impression of the title's progress.	Scenarist includes instant real-time hardware decoding on any external PAL/NTSC video monitor. The same card also features dual VGA output and simultaneous simulation on the VGA monitor. *Sonic Exclusive.*
Full Audio Support: High-end professionals have to provide their clients with support for all types of audio.	Only Scenarist Professional supports every possible audio format for DVD: Dolby®Digital, PCM (up to 96 kHz), DTS, and multi-channel MPEG-1 Layer 2. *Scenarist Exclusive.*
Cost Effective and Efficient delivery: For facilities with high production levels it's important to be able to deliver masters cheaply and work as close as possible to delivery deadlines.	**PlantDirect™ Tapeless Premastering:** Exclusive technology that removes the need for DLTs. Users can deliver their masters on a format of their choice and can also work right up to delivery deadlines by delivering masters overnight via a secure internet connection. PlantDirect removes the need for a physical shipment. *Scenarist Exclusive.*

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Commercial DVD Production Facilities continued....	
The user demands:	**Scenarist Professional delivers:**
Efficient Asset Management: It's common for projects to include thousands of menu, video, audio, and slideshow assets. It's important to be able to manage and locate assets at speed and with ease.	**Scenarist's Data Editor:** Scenarist devotes and entire editor to asset management. The Data Editor allows users to organize assets in a Windows Explorer style interface, join multiple video assets together, and specify place holders (dummy assets) for any type of asset. *Scenarist Exclusive.*
Future Ready Technology: Any industry leading facility has to be ready to embrace the latest technology developments.	**HD-DVD Readiness:** Scenarist is set to be become the HD standard for High Definition DVD. It will be the first Sonic product to support the new format when ratified by the DVD Forum. Users will be able to adopt this new technology without having to learn a new interface and work practice.
Professional Support: Downtime is not an option and on-call DVD expertise a must for any high-end facility.	**SonicCare Support Program:** Mission critical support that can be relied on for fast-swap hardware replacement, hotline phone access, online support resources, LifeLine facility visits, and software updates.

Existing Scenarist Customers	
The release of Scenarist Version 3.0 offers existing Scenarist users with a new opportunity to increase the efficiency of their production workflow by utilizing Scenarist's new Import/Export VTS feature.	
The user demands:	**Scenarist delivers:**
Increased Production Efficiency: The ability to distribute the production of large titles over multiple systems, copy and paste command scripts, and deliver project masters over a secure internet connection directly to replicators.	**Import/Export VTS:** Version 3.0's new Import/Export Video Title Set feature enables Scenarist users to distribute large projects over multiple Scenarist seats. Previously, large projects had to be authored on one project meaning that sometimes production could take weeks or even months to complete. Now facilities can assign as many authors as there are systems to work on separate sections of the title and then pull them together into a 'master' project, radically reducing turnaround time for large scale productions. *Scenarist Exclusive.* **Version 3.0 Upgrade:** Version 3.0 also offers advance copy-and-paste and PlantDirect™Tapeless Premastering to further increase production efficiency. See page 11 for upgrade information.

Government Video Producers	
Government Video Producers create titles designed to educate viewers on a range of topics. Their authoring requirements include content security, Closed Captioning, and high levels of interactivity.	
The user demands:	**Scenarist delivers:**
Dual Layer Support: For high quantities of video material.	Both Scenarist Studio and Scenarist Professional support Dual Layer production.
Copy Protection: To protect the distribution of the video content.	The Scenarist Studio FilmPack™and Scenarist Professional support all types of copy protection.

continued on page 8 . . .

Government Video Producers continued....	
The user demands:	**Scenarist delivers:**
Authoring Power: Highest level of interactivity possible. Requires unlimited access to the DVD specification.	Scenarist provides unrivaled access to the DVD specification including full GPRM/SPRM and DVD scripting access, User Operation Control, and Subpicture Effects. *Scenarist Exclusive.*
Highest Player Compatibility: For mass produced titles, users can't afford to have any player compatibility problems.	Scenarist's formatting engine is tried, tested, and trusted worldwide making it the only choice of major title distributors. Scenarist is renowned for it's level of player compatibility.
Templating Capabilities: For a series of titles with a common layout.	**Scenarist's Template Manager:** Enables users to save project templates at any stage in the authoring process. These templates can then be used as a starting point for any subsequent production.
Line 21 Support: For Closed Caption subtitles (NTSC only)	The Scenarist Studio FilmPack™ and Scenarist Professional support Line 21 data for importing Closed Caption subtitles.
HD-DVD Readiness	Scenarist is set to be become the HD standard for High Definition DVD. It will be the first Sonic product to support the new format when ratified by the DVD Forum. Users will be able to adopt this new technology without having to learn a new interface and work practice.

Educational and Training Establishments	
Educational and training establishments create highly featured titles used to educate and train their targeted viewers. These titles will often contain certification quizzes, multi-angle presentations, and playlists.	
The user demands:	**Scenarist delivers:**
High Level of Interactivity: For certification quizzes and playlists that graduate the complexity of the content.	Scenarist provides unrivaled access to the DVD specification with full GPRM/SPRM and DVD scripting access. Essential for programming interactive quizzes and DVD playlists.
Multi-stream support: Present training content with multiple video angles including optional audio, and subtitle streams.	Both Scenarist Studio and Professional support multi-angle and multiple audio and subtitle streams (see feature matrix on page 3). Scenarist Professional also has the ability to switch audio and subtitle streams along with the video angle.
Highest Player Compatibility: For mass produced titles, users can't afford to have any player compatibility problems.	Scenarist's formatting engine is tried, tested, and trusted worldwide making it the only choice of major title distributors. Scenarist is renowned for it's level of player compatibility.
Templating Capabilities: For a series of titles with a common layout.	**Scenarist's Template Manager:** Enables users to save project templates at any stage in the authoring process. These templates can then be used as a starting point for any subsequent production.
Dual Layer Support: For high quantities of video material.	Both Scenarist Studio and Scenarist Professional support Dual Layer production.

CONFIGURATION INFORMATION

It's vital for all systems to use approved hardware peripherals. The system requirements depend on the type of system purchased (all-in-one workstation or authoring only). The configuration information below is current at time of publishing. For up-to-date configuration information please follow the relevant links.

SYSTEM REQUIREMENTS All-in-one DVD Workstations

The following CPUs are approved for Scenarist Workstations:

Dell Precision 340, Pentium IV, 2.4 GHz
Dell Precision 350, Pentium IV, 3.0 GHz
HP Workstation xw4100, Pentium IV, 3.0 GHz
HP Workstation xw8000, Intel Xeon, 2.8 GHz

The following CPUs are also approved but no longer available:

Compaq AP 550, Pentium III
Compaq Evo W4000, Pentium IV
Compaq Evo W8000, Pentium IV, 2.8 GHz
Dell Precision 330, Pentium IV, 1.7 GHz
HP Workstation x1100, Pentium IV, 2.0 GHz
HP Workstation xw4000, Pentium IV, 2.8 GHz
IBM IntelliStation E Pro (6214) Intel 1994 MHz
IBM IntelliStation M Pro (6850) Intel 1700 MHz
IBM IntelliStation M Pro 2D (6849) Intel 1.4 GHz
IBM IntelliStation M Pro (6229) Intel 2.2 GHz

All approved CPUs must meet the following minimum system requirements:

Windows XP Pro Service Pack 1
Microsoft DirectShow 9.0
Microsoft Windows Media Player 7.0 or later
1 GB system memory
CD-ROM or DVD-ROM drive
Monitor with 1024 x 768 resolution (1280 x 1024 recommended), 24-bit color (32-bit color recommended)
200 MB of hard drive space on system drive for the SD-series encoder application and related files
Separate hard drive for video and audio files (9–18 GB recommended)

Note: If using an SD-1000 or SD-2000 with Windows XP, you must enable Bus Mastering in the BIOS settings. For information on changing BIOS settings, refer to the manufacturer's documentation included with your computer.

STAY UP-TO-DATE

For detailed and up-to-date configuration information, download the latest SD-series configuration guide from:
http://www.sonic.com/products/sdseries/config.htm
Click on the red 'SD-Series Encoders Configuration Guide' link at the bottom of the web page.

SYSTEM REQUIREMENTS Authoring-Only Systems

CPUs must meet the following minimum system requirements:

Windows 2000 Service Pack 3 or Windows XP Pro Service Pack 1
Microsoft DirectX 8.1
800 MHz Pentium III or faster
256 MB of system memory (RAM)
CD-ROM or DVD-ROM drive
Monitor with 1024 x 768 resolution (1280 x 1024 recommended), 24-bit color (32-bit color recommended)
40 MB of hard drive space for the Scenarist application and related files
Sufficient hard drive space for disc images and DVD Volumes
Parallel port for Scenarist dongle

Note: Hard drives for disc images must be formatted with the NTFS file system to support files larger than 4 GB.

STAY UP-TO-DATE

For detailed and up-to-date configuration information, download the latest Scenarist configuration guide from:
http://www.sonic.com/products/scenarist/config.asp
Click on the red 'Sonic Scenarist Configuration Guide' link at the bottom of the web page.

VIDEO AND AUDIO MONITORING

To monitor video and audio in Scenarist you will need an NTSC or PAL video monitor with S-Video input and powered audio monitors.

DLT DRIVES (Most replication facilities require DLT masters)

Scenarist supports the following DLT drives:

Quantum DLT 2000, DLT 4000, DLT 7000, and DLT 8000
Quantum DLT 1
Exabyte 8900

CD-RECORDABLE AND DVD-RECORDABLE DRIVES

Scenarist supports a wide range of optical drives. The current list of supported drives is available at:

http://www.sonic.com/products/scenarist/devices.asp

SCSI ADAPTERS (for DLT drives, not hard drives. RAIDS ARE NOT SUPPORTED)

Scenarist supports the Adaptec 2940 and 39160 SCSI adapters.

UPGRADE INFORMATION

Current Product	SonicCare Status	Upgrade Product	SKU	Price
Scenarist Basic - Version 2.X	NONE	Scenarist Basic - Version 3.0	SEN-3173	$1,399
Scenarist Basic - Version 2.X	Bronze	Scenarist Basic - Version 3.0	SEN-3178	$999
Scenarist Basic - Version 2.X	Silver	Scenarist Basic - Version 3.0	N/A	FREE!
Scenarist Studio - Version 2.X	NONE	Scenarist Studio - Version 3.0	SEN-3172	$1,399
Scenarist Studio - Version 2.X	Bronze	Scenarist Studio - Version 3.0	SEN-3177	$999
Scenarist Studio - Version 2.X	Silver/Gold	Scenarist Studio - Version 3.0	N/A	FREE!
Scenarist Advanced - Version 2.X	NONE	Scenarist Advanced - Version 3.0	SEN-3171	$1,799
Scenarist Advanced - Version 2.X	Bronze	Scenarist Advanced - Version 3.0	SEN-3176	$999
Scenarist Advanced - Version 2.X	Silver/Gold	Scenarist Advanced - Version 3.0	N/A	FREE!
Scenarist Professional - Version 2.X	NONE	Scenarist Professional - Version 3.0	SEN-3170	$2,199
Scenarist Professional - Version 2.X	Bronze	Scenarist Professional - Version 3.0	SEN-3175	$999
Scenarist Professional - Version 2.X	Silver/Gold	Scenarist Professional - Version 3.0	N/A	FREE!
Scenarist Basic	N/A	Scenarist Studio - Version 3.0	SEN-3135	$999*
Scenarist Basic	N/A	Scenarist Professional - Version 3.0	SEN-3132	$15,999
Scenarist Studio	N/A	Scenarist Professional - Version 3.0	SEN-3131	$17,999
Scenarist Advanced	N/A	Scenarist Professional - Version 3.0	SEN-3130	$8,999
Scenarist SGI	N/A	Scenarist Professional - Version 3.0	SEN-3138	$7,999
Scenarist - Version 2.X/3.X	N/A	Dual monitor plus video output HW	SEN-3109	$299

* Requires SonicCare Silver/Gold

HOW TO UPGRADE

Users should register their upgrade request at the following URL:

http://support.sonic.com/professional/scenarist/scenarist_download.asp?type=professional&product=scenarist

Following registration, users will receive download instructions and a new activator code.

FREQUENTLY ASKED QUESTIONS

1. Can I give this document to a potential or existing customer?

No. This document is for reseller use only.

2. What happened to Scenarist Advanced?

Scenarist Advanced is still available to existing users. It can still be purchased by ordering Scenarist Studio Authoring (SEN-3101), Scenarist Studio FilmPack (SEN-3113), and Scenarist Studio Line 21 Option (SEN-3112). The only difference between this composite order and Scenarist Advanced is that 96 kHz PCM Audio Support and Multi-channel MPEG-2 Audio support are not featured. These two features are in Scenarist Professional.

3. What is meant by 'Video angles with audio/subtitle switching'?

Scenarist Professional let's you associate any video angle with an audio and subtitle stream. This means that when you switch video angle, the audio and subtitle stream switch automatically. it also enables you to hide certain audio/subtitle streams from the viewer depending on which angle they're viewing.

4. Do I need any other equipment to use PlantDirect?

No. All you need is an internet connection and access to your replicator's ftp site.